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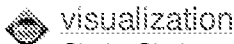
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21 **A versatile large-scale multimodal VR system for cultural heritage visualization**
Chris Christou, Cameron Angus, Celine Loscos, Andrea Dettori, Maria Roussou
November 2006 VRST '06: Proceedings of the ACM symposium on Virtual reality software and technology
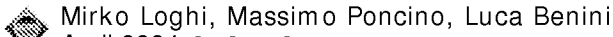Publisher: ACM

Full text available: pdf(2.16 MB)   Additional Information: full citation, abstract, references, index terms

We describe the development and evaluation of a large-scale multimodal virtual reality simulation suitable for the visualization of cultural heritage sites and architectural planning. The system is demonstrated with a reconstruction of an ancient Greek ...

Keywords: haptics, multimodal Interfaces, virtual heritage

22 **Cycle-accurate power analysis for multiprocessor systems-on-a-chip**
Mirko Loghi, Massimo Poncino, Luca Benini
April 2004 GLSVLSI '04: Proceedings of the 14th ACM Great Lakes symposium on VLSI
Publisher: ACM

Full text available: pdf(191.54 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Developing energy-aware software for multiprocessor systems-on-chip (MPSoCs) is a difficult task, which requires the knowledge of the distribution of the power consumption among several heterogeneous devices (cores, memories, busses, etc.). In this work ...

Keywords: low power, multiprocessor, system-on-chip

23 **Automated material handling systems: a simulation-based design framework for automated material handling systems in 300mm fabrication facilities**
Dima Nazzal, Douglas A. Bodner
December 2003 WSC '03: Proceedings of the 35th conference on Winter simulation: driving innovation
Publisher: Winter Simulation Conference

Full text available: pdf(362.35 KB) Additional Information: full citation, abstract,

references

This paper describes a methodology to tackle the problem of designing Automated Material Handling Systems (AMHS) for 300mm wafer fabrication facilities. The proposed framework divides the design process into two levels: architectural and elaborative. ...

24 Applying temporal databases to HLA data collection and analysis
Thom McLean, Leo Mark, Margaret Loper, David Rosenbaum
December 1998 WSC '98: Proceedings of the 30th conference on Winter simulation
Publisher: IEEE Computer Society Press

Full text available: pdf(65.27 KB)   Additional Information: full citation, references, index terms

25 Network scheduling for data archiving applications in sensor networks
Yong Yao, S. M. Nazrul Alam, Johannes Gehrke, Sergio D. Servetto
September 2006 DMSN '06: Proceedings of the 3rd workshop on Data management for sensor networks: in conjunction with VLDB 2006
Publisher: ACM

Full text available: pdf(325.03 KB)   Additional Information: full citation, abstract, references

Since data archiving in sensor networks is a communication intensive application, a careful power management of communication is of critical importance ...

26 A new simulation model for expressway weaving sections evaluation
Sun Jian, Yang Xiaoguang, Ma Yunlong
December 2005 WSC '05: Proceedings of the 37th conference on Winter simulation
Publisher: Winter Simulation Conference

Full text available: pdf(294.63 KB)   Additional Information: full citation, abstract, references

Simulation of traffic flow is an effective tool for traffic system management, control and optimization, particularly in congested urban areas. TESS is an object oriented traffic simulation model with detailed representation of vehicles and their interactions. ...

27 You are going to teach simulation: now what? tips and strategies
Michael Freimer, Lee W. Schruben, Theresa M. Roeder, Charles R. Standridge, Catherine M. Harmonosky, Ingolf Ståhl
December 2004 WSC '04: Proceedings of the 36th conference on Winter simulation
Publisher: Winter Simulation Conference

Full text available: pdf(303.08 KB)   Additional Information: full citation, abstract, references

Facing the prospect of teaching a simulation course for the first time can be a bit overwhelming. This panel shares tips and strategies for teaching simulation based upon a wide variety of experiences, from academic

newcomer to many years in the field, ...

28 Distributed simulation in manufacturing: simulation of distributed
    manufacturing enterprises: a new approach
    Sameh M. Saad, Terrence Perera, Ruwan Wickramarachchi
    December 2003 WSC '03: Proceedings of the 35th conference on Winter
                    simulation: driving innovation
    Publisher: Winter Simulation Conference

    Full text available: pdf(356.99 KB)   Additional Information: full citation, abstract,
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        The globalization of markets and world-wide competition forces
        manufacturing enterprises to enter into alliances leading to the creation
        of distributed manufacturing enterprises. Before forming a partnership it
        is essential to evaluate viability of proposed ...

29 Distributed simulation in industry -- a survey: part 2 -- experts on
    distributed simulation
    Csaba Attila Boer, Arie de Bruin, Alexander Verbraeck
    December 2006 WSC '06: Proceedings of the 38th conference on Winter
                    simulation
    Publisher: Winter Simulation Conference

    Full text available: pdf(210.67 KB)   Additional Information: full citation, abstract,
                                                                   references, cited by

        Distributed simulation is used very little in industry, especially when
        compared with the interest in distributed simulation from research and
        from the military domain. In order to answer the question why industry
        lags behind, the authors have carried ...

30 Sparse data aggregation in sensor networks
    Jie Gao, Leonidas Guibas, Nikola Milosavljevic, John Hershberger
    April 2007 IPSN '07: Proceedings of the 6th international conference on
                  Information processing in sensor networks
    Publisher: ACM

    Full text available: pdf(363.19 KB)   Additional Information: full citation, abstract,
                                                                   references, index terms

        We study the problem of aggregating data from a *sparse* set of nodes in
        a wireless sensor network. This is a common situation when a sensor
        network is deployed to detect relatively rare events. In such situations,
        each node that should participate ...

        Keywords: aggregation, sensor networks

31 Heterogeneous multi-computer system: a new platform for multi-
    paradigm scientific simulation
    Taisuke Boku, Masayuki Umemura, Jun'ichiro Makino, Toshiyuki Fukushige,
    Hajime Susa, Akira Ukawa
    June 2002 ICS '02: Proceedings of the 16th international conference on
                  Supercomputing
    Publisher: ACM

    Full text available: pdf(187.22 KB)   Additional Information: full citation, abstract,
                                                                   references, index terms

HMCS (Heterogeneous Multi-Computer System) is a new parallel processing platform combining massively parallel processors for continuum simulation and particle simulation to realize multi-scale computational physics simulations. We are constructing a ...

Keywords: CP-PACS, GRAPE, heterogeneous computing

32 Undergraduate embedded system education at Carnegie Mellon

Philip Koopman, Howie Choset, Rajeev Gandhi, Bruce Krogh, Diana Marculescu, Priya Narasimhan, Joann M. Paul, Ragunathan Rajkumar, Daniel Siewiorek, Asim Smailagic, Peter Steenkiste, Donald E. Thomas, Chenxi Wang
August 2005 ACM Transactions on Embedded Computing Systems (TECS), Volume 4 Issue 3
Publisher: ACM

Full text available: pdf(162.46 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Embedded systems encompass a wide range of applications, technologies, and disciplines, necessitating a broad approach to education. We describe embedded system coursework during the first 4 years of university education (the U.S. undergraduate level). ...

Keywords: Embedded systems education, curriculum

33 A performance evaluation of a novel energy-aware data-centric routing algorithm in wireless sensor networks

Azzedine Boukerche, Xuzhen Cheng, Joseph Linus
September 2005 Wireless Networks, Volume 11 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: pdf(956.90 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present a novel Energy-Aware Data-Centric Routing algorithm for wireless sensor networks, which we refer to as EAD. We discuss the algorithm and its implementation, and report on the performance results of several workloads using the ...

Keywords: data-centric routing, in-network processing, spanning tree with maximum leaves, wireless sensor network

34 Using the SimOS machine simulator to study complex computer systems

Mendel Rosenblum, Edouard Bugnion, Scott Devine, Stephen A. Herrod
January 1997 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 7 Issue 1
Publisher: ACM

Full text available: pdf(731.76 KB)   Additional Information: full citation, references, cited by, index terms, review

Keywords: computer architecture, computer simulation, computer system performance analysis, operating systems

35
Improving the Scalability of Parallel Jobs by adding Parallel Awareness to the Operating System

Terry Jones, Shawn Dawson, Rob Neely, William Tuel, Larry Brenner,

Jeffrey Fier, Robert Blackmore, Patrick Caffrey, Brian Maskell, Paul
Tomlinson, Mark Roberts
November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on
                Supercomputing
Publisher: IEEE Computer Society
Full text available: pdf(227.39 KB) Additional Information: full citation, abstract, cited by

> A parallel application benefits from scheduling policies that include a
> global perspective of the application's process working set. As the
> interactions among cooperating processes increase, mechanisms to
> ameliorate waiting within one or more of the ...

36 Database driven factory simulation: a proof-of-concept demonstrator

Lars G. Randell, Gunnar S. Bolmsjö"
December 2001 WSC '01: Proceedings of the 33nd conference on Winter
                simulation
Publisher: IEEE Computer Society

Additional Information: full citation, abstract,
references, cited by, index
terms

Full text available: pdf(114.43 KB)

> The paper presents a database-based method to reduce the
> development time and project lead-time for large discrete-event
> simulation models of entire factories. The database used to automatically
> generate and drive the simulation model is a copy of the ...

37 Study on simulation credibility metrics

Fei Liu, Ming Yang, Zicai Wang
December 2005 WSC '05: Proceedings of the 37th conference on Winter
                simulation
Publisher: Winter Simulation Conference

Additional Information: full citation, abstract,
references

Full text available: pdf(276.97 KB)

> Currently, there appears to be an over-preoccupation with building
> simulation validity in simulation credibility evaluation. However, today's
> simulation systems become more complex and larger, the only validity
> metric can't represent simulation credibility, ...

38 Practical synchronization techniques for multi-channel MAC

Hoi-Sheung Wilson So, Giang Nguyen, Jean Walrand
September 2006 MobiCom '06: Proceedings of the 12th annual international
                conference on Mobile computing and networking
Publisher: ACM

Additional Information: full citation, abstract,
references, index terms

Full text available: pdf(291.65 KB)

> Researchers have proposed many wireless MAC protocols such as [20],
> [8], [25], [24], [6], and [17] which exploit frequency-agile radios and
> multiple available channels to increase network through-put. These
> protocols usually only require each node to ...
>
> Keywords: clock drift, medium access control, multi-channel MAC,
> protocol, recursive least squares (RLS), time synchronization, wireless

39 System lag tests for augmented and virtual environments

Colin Swindells, John C. Dill, Kellogg S. Booth
November 2000 UI ST '00: Proceedings of the 13th annual ACM symposium
on User interface software and technology
Publisher: ACM

Full text available: pdf(1.51 MB)   Additional Information: full citation, references, cited by, index terms

> Keywords: augmented reality, calibration, lag, sensor, turntable, virual reality

40 System-level power optimization: techniques and tools
Luca Benini, Giovanni de Micheli
April 2000 ACM Transactions on Design Automation of Electronic
Systems (TODAES), Volume 5 Issue 2
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(385.22 KB)   references, cited by, index terms

> This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, ...

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